

**Table 4-1  
Summary of Source Surface Water Analytical Data  
Fansteel Metals/FMRI  
EPA Region 6**

Analyte	SCDM Benchmark (lowest value)	Background (SW-BKG) or RL	CAS.NO	Units	Station Sample ID Date Type	BKG	P3	P6	P7	P8	P8	P9	SB	SCB											
						SW-BKG-20190409 4/9/2019 Field Sample	SW-P3-20190408 4/8/2019 Field Sample	SW-P6-20190408 4/8/2019 Field Sample	SW-P7-20190408 4/8/2019 Field Sample	SW-P8-20190408 4/8/2019 Field Sample	SW-DUP1-20190408 4/8/2019 Field Duplicate	SW-P9-20190408 4/8/2019 Field Sample	SW-SB-20190408 4/8/2019 Field Sample	SW-SCB-20190410 4/10/2019 Field Sample											
<b>SVOC</b>																									
Atrazine	0.33	0.2	1912-24-9	ug/L	--	0.17	JQ	0.033	U	0.033	U	0.033	U	0.033	U	0.033	U	0.034	U						
Benzaldehyde	-	0.2	100-52-7	ug/L	--	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.031	U						
Bis(2-ethylhexyl)phthalate	5.5	0.2	117-81-7	ug/L	--	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.55		0.038	U						
Caprolactam	-	0.2	105-60-2	ug/L	--	0.045	U	0.045	U	0.045	U	0.045	U	0.045	U	0.45		0.046	U						
<b>Metals</b>																									
Aluminum	-	0.289	7429-90-5	mg/L	--	0.289		0.469		0.538		0.114		2.82		3.25		1.59		0.318		0.0338			
Antimony	0.006	0.002	7440-36-0	mg/L	--	0.0004	U	0.0004	U	0.0004	U	0.0004	U	0.0004	U	0.0004	U	0.0004	U	0.000483	JQ	0.0004	U		
Arsenic	0.00005	0.00244	7440-38-2	mg/L	--	0.00244		0.00168	JQ	0.0666		0.0783		0.0637		0.0649		0.122		0.0477		0.000547	JQ		
Barium	2	0.14	7440-39-3	mg/L	--	0.14		0.0072		0.0199		0.0193		0.0384		0.0394		0.0343		0.154		0.0176			
Beryllium	0.004	0.002	7440-41-7	mg/L	--	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.00216		0.00236		0.000738	JQ	0.0002	U	0.0002	U		
Cadmium	0.005	0.002	7440-43-9	mg/L	--	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.000205	JQ	0.000258	JQ	0.0002	U	0.00111	JQ	0.0002	U		
Calcium	-	87.4	7440-70-2	mg/L	--	87.4		11.9		141		161		176		160		221		77.2		10.3			
Chromium	0.00005	0.004	7440-47-3	mg/L	--	0.000416	JQ	0.000525	JQ	0.0137		0.0122		0.00827		0.00999		0.0693		0.0146		0.000765	JQ		
Cobalt	0.006	0.005	7440-48-4	mg/L	--	0.000492	JQ	0.000334	JQ	0.000586	JQ	0.0002	U	0.00155	JQ	0.00174	JQ	0.001	JQ	0.00142	JQ	0.0002	U		
Copper	0.8	0.002	7440-50-8	mg/L	--	0.00318		0.001	U	0.00243		0.00164	JQ	0.00362		0.00487		0.00285		0.0339		0.001	U		
Iron	10	0.365	7439-89-6	mg/L	--	0.365		0.453		0.356		0.0981	JQ	0.891		1.1		1.38		4.4		0.134	JQ		
Lead	150	0.002	7439-92-1	mg/L	--	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.0006	U	0.000739	JQ	0.0175		0.0006	U
Magnesium	-	26.5	7439-95-4	mg/L	--	26.5		2.43		14.8		16.9		23.8		23.6		22.2		2.59		0.545			
Manganese	2.8	0.0783	7439-96-5	mg/L	--	0.0783		0.155		0.0776		0.0355		1.93		2.13		0.62		0.0582		0.0153			
Nickel	0.4	0.002	7440-02-0	mg/L	--	0.00115	JQ	0.000656	JQ	0.00223		0.00072	JQ	0.0088		0.00942		0.00442		0.00792		0.0006	U		
Potassium	-	5.89	2023695	mg/L	--	5.89		6.14		48.7		55.6		49.4		49.3		77.8		16.1		2.31			
Silver	0.1	0.002	7440-22-4	mg/L	--	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U		
Sodium	-	299	7440-23-5	mg/L	--	299		5.04		103		120		113		112		168		17.9		3			
Thallium	0.0002	0.002	7440-28-0	mg/L	--	0.0002	U	0.002	UB	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U		
Zinc	6	0.004	7440-66-6	mg/L	--	0.00237	JQ	0.00302	JQ	0.0049		0.00304	JQ	0.00954		0.00986		0.0107		32.8		0.0195			
Mercury	0.002	0.0002	7439-97-6	mg/L	--	0.00003	U	0.00003	U	0.00003	U	0.00003	U	0.00003	U	0.00003	U	0.00003	U	0.00004	JQ	0.00003	U		
<b>RAD*</b>																									
Ra-226	1.35	0.16	13982-63-3	pCi/L	--	0.16	U	0.11	U	0.25	U	0.34	U	0.12	U	0.51	U	0.85	U	0.09	U	0.09	U		
Ra-228	0.0502	0.6	15262-20-1	pCi/L	--	0.6	U	-0.1	U	0.59	U	0.48	U	-0.07	U	0.15	U	0.81	U	0.04	U	0.01	U		
Th-228	0.1	0.051	14274-82-9	pCi/L	--	0.051	U	0.011	U	0.045	U	0.076	U	0.035	U	0.06	U	0.206	JH	0.011	U	-0.022	U		
Th-230	0.571	0.048	14269-63-7	pCi/L	--	0.048	U	0.002	U	0.089	U	0.2	JH	0.218	JH	0.065	U	0.272		0.015	U	-0.015	U		
Th-232	0.517	0.028	7440-29-1	pCi/L	--	0.028	U	0.016	U	0.021	U	0.097	JH	0.105	JH	0.003	UJ	0.235		0.006	U	0.005	U		
U-234	0.739	1.68	13966-29-5	pCi/L	--	1.68		0.37		23.2		24.3		6.1		4.6		49.4		0.175	U	0.3	JH		
U-235	0.727	0.15	15117-96-1	pCi/L	--	0.15	U	0.012	U	1.2		1.34		0.22	JH	0.19	U	2.87		0.044	U	0.018	U		
U-238	0.6	1.2	7440-61-1	pCi/L	--	1.2		0.185		24.4		26.4		6.1		4.33		51.2		0.15	U	0.189	U		

Note:  
 ug/L - microgram per liter, mg/L - milligram per liter, pCi/L - picocurie per liter  
 - Highlighted yellow - Above Background  
 - Highlighted orange - above lowest SCDM benchmark  
 U - Analyzed but not detected  
 J - Analyte detected below Quantitation Limit  
 H - Biased high  
 L - Biased low  
 K - Unknown bias  
 Q - The reported concentration is less than the sample quantitation limit for the specific analyte in the sample.  
 \* Rad results compared to 3x background or RL, not 2 standard deviations above the mean